

<b>L Number</b>	<b>Hits</b>	<b>Search T xt</b>	<b>DB</b>	<b>Tim stamp</b>
<b>1</b>	<b>26</b>	<b>parson n ar2 nich las</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:32</b>
<b>2</b>	<b>3</b>	<b>ellard near2 barry</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:32</b>
<b>3</b>	<b>11</b>	<b>marshall near2 graeme</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:32</b>
<b>4</b>	<b>34</b>	<b>(parson near2 nicholas) (ellard near2 barry) (marshall near2 graeme)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:32</b>
<b>5</b>	<b>4012214</b>	<b>aluminum Al</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:33</b>
<b>6</b>	<b>18</b>	<b>((parson near2 nicholas) (ellard near2 barry) (marshall near2 graeme)) and (aluminum Al)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:44</b>
<b>7</b>	<b>12841</b>	<b>(aluminum Al) near2 (alloy base based remaining remain balanced balancing rest) and (extruding extruded)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:46</b>
<b>8</b>	<b>57001</b>	<b>(aluminum Al) same (silicon Si) same (magnesium Mg)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:47</b>
<b>9</b>	<b>636</b>	<b>((aluminum Al) same (silicon Si) same (magnesium Mg)) and (etching etched etch) and (anodized anodised anodising anodizing)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:48</b>
<b>10</b>	<b>79</b>	<b>((aluminum Al) same (silicon Si) same (magnesium Mg)) and (etching etched etch) and (anodized anodised anodising anodizing) and (aging aged ageing)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT</b>	<b>2003/09/24 11:49</b>
<b>11</b>	<b>3</b>	<b>(US-6565679-\$ or US-6440359-\$).did. or (US-20030150532-\$).did.</b>	<b>USPAT; US-PGPUB</b>	<b>2003/09/24 11:50</b>

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(FILE 'HOME' ENTERED AT 11:29:16 ON 24 SEP 2003)

FILE 'HCAPLUS' ENTERED AT 11:29:23 ON 24 SEP 2003

E JP06336682/PN

L1 1 E3

L2 192789 (AL OR ALUMINUM) (2A) (ALLOY OR REMAIN? OR BALANCE? OR BASE? OR R

L3 5040 L2 AND EXTRUD?

L4 222 L3 AND ANODI?

*Examiner's Copy*

AN 1986:428454 CAPLUS  
DN 105:28454  
TI Surface treatment of aluminum and aluminum alloys  
IN Hata, Tadahiro  
PA Tateyama Aluminium Kogyo K. K., Japan  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61030684	A2	19860212	JP 84-150329	19840719
	JP 03056320	B4	19910827		

AB Al or Al alloys are etched in aq. NaOH contg. Zn, washed with water, desmutted, and then electrolyzed in an aq. soln. contg. Cl. A fine matte finish is obtained by only a little electricity consumption. Thus, 6063S-T5 (extruded material) was degreased, washed with water, etched by dipping 10 min in 40.degree. soln. contg. 50 g NaOH/L and 10 ppm Zn, washed with water, and then dipped 5 min in a std. temp. bath contg. 100 g H2SO4/L for desmutting. This was anodized 5 min at 20.degree. and 0.3 A/dm2 in pH 1.5 H2SO4 bath contg. 100 ppm Cl (NaCl) to give a gray matte finish.

AN 1995:408551 HCAPLUS  
 DN 122:167679  
 TI Manufacture of aluminum alloy materials having grain pattern  
 IN Takai, Toshihiro  
 PA Tateyama Aluminum Kogyo Kk, Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 06336682	A2	19941206	JP 1994-61220	19940330 <--
PRAI	JP 1993-73214		19930331		
AB	Al-Mg-Si base alloys contg. <0.05% Fe. and 0.05-0.3% Cu are extruded and etched to obtain Al alloy materials having grain pattern preferably from grains of av. size 1.0-2.0 mm for building materials, etc. Optionally the Al alloy materials are further anodized, colored, and coated with paint.				

AN 123:176745 HCA  
 TI Corrosion-resistant aluminum alloys  
 IN Kobori, Kazuhiro; Iwai, Ichiro  
 PA Showa Aluminium Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 07126784	A2	19950516	JP 93-279767	19931109
AB	The Al alloys contain Mg 0.2.-1.0, Si 0.4-1.5, Ti 0.05-0.3, Cu .ltoreq.0.05, and optionally Mn 0.05-0.2, Fe 0.05-0.35, and/or Cr .ltoreq.0.05%. The Al alloys are useful for hulls of ships.				

AN 95:11214 HCA  
 TI Type A-GS aluminum alloy with high mechanical strength  
 and toughness  
 FA Societe de Vente de l'Aluminium Pechiney, Fr.; Cegedur Societe de  
 Transformation de l'Aluminium Pechiney  
 SO Fr. Demande, 6 pp.  
 CODEN: FRXXBL  
 DT Patent  
 LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	FR 2446865	A1	19800814	FR 79-1450	19790116
	FR 2446865	B1	19821203		

AB The strength and ductility of Al alloys of the A-GS type is improved for use in wire products. The alloy contains Si 0.3-0.6, Fe <0.35, Cu <0.3, Mn <0.3, Cr <0.20 (with 0.08% .ltoreq. Mn + 2Cr .ltoreq. 0.40), Mg 0.40-0.75, Ti <0.1, Zr <0.1, and other elements 0.15%. The alloy is heat treated in the T5 condition for tensile strength of .apprx.260 MPa. The Charpy V-notch toughness is .gtoreq.1.5 times that of classical A-GS at similar strength. The radius of crack-free bending to 180.degree. is .ltoreq.0.65 of that of A-GS, at equal and comparable strength. Thus, alloy [77807-62-6] contg. Fe 0.19, Si 0.47, Mg 0.54, Cu 0.11, Mn 0.12, Cr 0.06, and Ti 0.012% had tensile strength of 273 MPa, and toughness of 33 J/cm2.

AN 96:185941 HCA  
TI Die-cast aluminum alloy  
PA Ryobi, Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57002857	A2	19820108	JP 80-78115	19800609
	JP 61036063	B4	19860816		
AB	Scrap from 6063 Al alloy [11121-92-9] sash prodn. contg. Cu .ltoreq.0.10, Si 0.20-0.6, Fe .ltoreq.0.35, Mn .ltoreq.0.10, Mg 0.45-0.9, Zn, Cr, Ti .ltoreq.0.1, and other impurities .ltoreq.0.15%, is melted and added with Fe and Ti to contain Fe 0.6-1.5 and Ti 0.06-0.15%. It is readily die-cast and anodized to be silver white and corrosion-resistant.				

AN 105:10442 HCA  
TI Aluminum alloys coated with amorphous silicon  
for photosensitive drums  
IN Asano, Kazuhiko; Ochi, Kenichiro; Tsuji, Yoshihiro; Katayama, Satoru  
PA Kobe Steel, Ltd.; Japan  
SO Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 60262937	A2	19851226	JP 84-119436	19840611
	JP 62032258	B4	19870714		

AB Al alloys for photosensitive drums contain Si  
0.2-1.0, Mg 0.1-1.5, Zn 0.05-1.0, Fe .ltoreq.0.35,  
Mn .ltoreq.0.10, and Cr .ltoreq.0.10%. Polished surface is  
suitable for coating by vacuum evapn. of amorphous Si. Thus,  
Al-alloy ingot (contg. Mg 0.55, Si  
0.35, Fe 0.10, and Zn 0.28%) was soaked 4 h at 520.degree.,  
extruded into a pipe, and polished to surface roughness 0.03.mu..  
Amorphous Si evapd. on the surface showed a high resistance to  
peeling.



*Examiner's Copy*

AN 1986:428454 CAPLUS  
DN 105:28454  
TI Surface treatment of aluminum and aluminum alloys  
IN Hata, Tadahiro  
PA Tateyama Aluminium Kogyo K. K., Japan  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 61030684	A2	19860212	JP 84-150329	19840719
	JP 03056320	B4	19910827		

AB Al or Al alloys are etched in aq. NaOH contg. Zn, washed with water, desmutted, and then electrolyzed in an aq. soln. contg. Cl. A fine **matte** finish is obtained by only a little electricity consumption. Thus, 6063S-T5 (**extruded** material) was degreased, washed with water, etched by dipping 10 min in 40.degree. soln. contg. 50 g NaOH/L and 10 ppm Zn, washed with water, and then dipped 5 min in a std. temp. bath contg. 100 g H2SO4/L for desmutting. This was anodized 5 min at 20.degree. and 0.3 A/dm2 in pH 1.5 H2SO4 bath contg. 100 ppm Cl (NaCl) to give a gray **matte** finish.

AN 122:15090 HCA  
TI Manufacture of aluminum wheels by forging and aging  
IN Nagata, Tatsuo; Takahashi, Wataru  
PA Sumitomo Metal Ind, Japan  
SO Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 06248401	A2	19940906	JP 93-61307	19930226
AB	The Al-alloy blanks (contg. Mg 0.3-1.5, Si 0.2-1.2, Fe .ltoreq.0.7, Cu .ltoreq.0.4, Cr .ltoreq.0.4, Mn .ltoreq.0.2, and Zn .ltoreq.0.8%) are pretreated by soln. heat treatment, and forged at 150-300.degree. and .gtoreq.10% draft, followed by aging the wheel rim products for increased strength.				

AN 105:177169 HCA  
TI Aluminum alloy ingot for rolling  
IN Takagi, Kunitoshi; Kimura, Makoto  
PA SKY Aluminium Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61104044	A2	19860522	JP 84-222594	19841023
	JP 02025972	B4	19900606		

AB The Al alloy ingot contains Fe and Si 0.05-1.0 each with Fe/Si ratio 3.0-7.0, Mg 0.3-1.5, Cu 0.01-0.5, Ti 0.005-0.3, and Cr and Mn 0.05-0.3% each. The ingot microstructure has dendrite arm spacing .ltoreq.30.mu. at 20 mm depth. No dendritic pattern is obsd. after rolling and anodizing. Thus, typical Al alloy contained Fe 0.47-0.48, Si 0.11, Mg 0.76-0.80, Cr 0.07, Cu 0.05, Ti 0.01, and Mn 0.01-0.02%.

AN 107:221690 HCA  
TI Aluminum-based alloys  
PA Swiss Aluminium Ltd., Switz.  
SO Belg., 7 pp.  
CODEN: BEXXAL  
DT Patent  
LA French  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	BE 906107	A1	19870416	BE 86-217650	19861230
AB	The Al alloys contain Mg 0.3-1.0, Si 0.3-1.2, Fe 0.1-0.5, V 0.05-0.20, Cu .1toreq.0.4%, and Mn .1toreq. (0.25-0.5) x %Fe. The alloys are used for laminating. Thus, annealed alloy contg. Cu 0.17, Fe 0.19, Mg 0.51, Mn 0.06, Si 0.39, and V 0.08% showed better than AA6060 in terms of forging and bending properties.				

AN 120:60336 HCA  
TI Aluminum alloys for heat-exchange fins  
IN Doko, Takenobu  
PA Furukawa Aluminium, Japan  
SO Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 05263172	A2	19931012	JP 92-91785	19920317
AB	The Al alloys contain Si 0.05-1.1, Fe 0.05-1.1, and Zr 0.03-0.3%, and are reheated at 400-500.degree. for 10 min to 30 h after brazing. Optionally, the Al alloys contain Cu .ltoreq.0.5, Mg .ltoreq.1.0, Cr .ltoreq.0.3, Mn .ltoreq.0.09, and/or Ti .ltoreq.0.3, and/or Zn .ltoreq.2.5, In .ltoreq.0.3, and/or Sn .ltoreq.0.3%.				

AN 122:139979 HCA  
TI Manufacture of aluminum-magnesium-silicon based alloy  
plates with excellent heat-hardenability  
IN Kishino, Kunihiro; Sasaki, Katsutoshi; Watanabe, Hajime  
PA Furukawa Aluminium, Japan; Kawasaki Steel Co  
SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06272001	A2	19940927	JP 93-85479	19930319
AB	Al alloy ingots contg. Mg 0.2-2, Si 0.2-2, and .gtoreq.1 of Fe .ltoreq.2, Cu .ltoreq.2, Zn .ltoreq.3, Mn .ltoreq.2, Cr .ltoreq.0.5, Zr .ltoreq.0.3, Ti .ltoreq.0.2, B .ltoreq.0.1, and Be .ltoreq.0.05% are (1) homogenized by heating to .gtoreq.480.degree., or homogenized and heated to .gtoreq.480.degree. during hot rolling, (2) hot rolled under conditions of passing 360-450.degree. within <15 min and finish temp. .ltoreq.360.degree., (3) cold rolled, with optional intermediate annealing, and (4) soln. treated for .gtoreq.10 s at .gtoreq.500.degree.. The plates are useful for automobiles, elec. appliances, etc.				

AN 123:15554 HCA  
 TI Manufacture of aluminum alloy sheets for panel forming  
 IN O. Heiryu; Suzuki, Juichi  
 PA Furukawa Electric Co Ltd, Japan; Kawasaki Steel Co  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07018390	A2	19950120	JP 93-191786	19930705
AB	<p>The age-hardening sheets are manufd. from the Al alloys          contg. Si 0.3-1.7, Cu 0.01-1.2, Mn 0.01-1.1,          Mg 0.4-1.4, Fe .ltoreq.1.0, and optionally Cr 0.04-0.4,          Zn .ltoreq.0.25, Zr .ltoreq.0.4, and/or Ti .ltoreq.0.2 wt.%. The          Al-alloy ingot is hot rolled and then cold rolled, and          the sheets are soln. treated at .gtoreq.450.degree. but below the solidus          temp., quenched, and aged with adjusting the content of pptd.          intermetallic compd. to 0.01-0.1 vol.% by controlling the quenching and          low-temp. aging. The Al-alloy sheets are useful for          manuf. of automobile body panels.</p>				

JP359031892A , Feb. 21, 1984, SURFACE TREATMENT OF EXTRUDED ALUMINUM MATERIAL; HARADA, HIDEHIKO, et al., INT-CL: C25D11/18; C25D11/16

**ABSTRACT:**

**PURPOSE:** To provide a deep color tone to an extruded Al material by a matte surface and a composite color, by blasting the surface of the material, forming a colored alumite film, coating the film with paint which is different from the film in color, and wiping off part of the paint film.

**CONSTITUTION:** The surface of an extruded Al section is decorated with a desired matte pattern by spraying hard fine grains, and a colored alumite film is formed by anodic oxidation or other method. The surface of the film is coated with paint which is different from the film in color, and part of the paint film (protrusions of the matte surface) is wiped off. By this method a deep surface finish giving a pattern of a composite color is attained.